CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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SECURITY INFORMATION

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SUBJECT	Estimated Consumption and Requirements of Iron Alloys for 1953	DATE DISTR.	4 May 1953
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This is UNEVALUATED Information

THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE.
THE APPRAISAL OF CONTENT IS TENTATIVE.
(FOR KEY SEE REVERSE)

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1. The following tables give estimated iron alloy requirements during 1953, in respect to the foundries and other consumers.[1] Figures are in tons.

a. Consumption of Ferrochromium, (0.07%C and 0.10%C)

Foundry	Product	Tons	Consumption of FeCr Up to 0.07% C	Consumption of FeCr Up to 0.10% C
Baildon	Stainless steel	1,880	173	87
Mala Panew	Cast steel with nickel content, for building	1,200	73	-
	Cast steel without nickel, for building	5,600	-	58
	Stainless steel	3,210	-	966
Fort Wola	Steel castings	-	-	38
Stalowa Wola	Stainless steel	1,750	-	435
	Total consumption		180[2]	1,584

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25 YEAR RE-REVIEW

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(Note: Washington Distribution Indicated By "X"; Field Distribution By "#".)

b. Consumption of Ferromolybdenum 60%

Foundry	Electro-steel castings for building, without Ni		Electro-steel castings, for building, with Ni		Cast steel for tools		Stainless steel	
	A	B	A	B	A	B	A	B
Baildon	18,780	3.7	7,000	18.4	9,700	7.7	1,880	6.3
Sosnowiec	2,250	.2	60	.4	-	-	-	-
Batory	14,300	11.4	3,400	14.6	9,800	12.0	620	3.3
Mala Panew	14,500	23.7	-	-	-	-	3,200	25.7
Stalowa Wola	15,400	23.5	13,900	40.3	3,000	15.2	1,750	3.5
Z.M.I.S.			6,500	19.5	-	-	1,800	9.0

A = Quantity in tons
B = Consumption of FeMo 60%

There will also be the following requirements:

Ministry for the Chemical Industry	6.5 tons
Central Authority for the Construction of Heavy Machinery	15. tons
Metal Institute	0.6 tons
Production of Martin steel	30.3 tons
Production of iron castings	38.4 tons

c. Consumption of Ferrotitanium

Foundry	Stainless steel		Special steel castings		Other Production		%Ti
	A	B	A	B	A	B	
Baildon	1,880	39.7	40	.05		3.3	40%
Batory	6,200	7.7	-	-	-	-	20%
Mala Panew	3,200	37.7	-	-	-	-	20%
Stalowa Wola	1,750	32.5	-	-	-	-	40%
Metal Institute	-	-	-	-	-	1.1	25%

A = Quantity in tons
B = Consumption of FeTi

d. Consumption of Ferrosilicon

Foundry	Electro-steel		Martins steel		Iron (zeliwo)		Iron alloys	
	A	B	A	B	A	B	A	B
Foundry Industry	79,200	900	3,263,300	7,160	84,000	127	7,625	2,220
Mala Panew	53,500	360	10,000	43	-	-	1,480	4*
Stalowa Wola	37,800	310	129,200	730	780	10ø	-	-
Z.M.I.S.	20,000	734	-	-	-	-	-	-

There will be additional consumption for 5,400 tons steel castings at Stalowa Wola (22 tons FeSi), and 3,200 tons for other production.

* = Synthetic pig iron

ø = Castings

A = Quantity in tons

B = Consumption of FeSi

2. The State Economic Planning Commission has formulated the plans for the consumption of iron alloys for Poland during 1953, the extent to which requirements may be covered by home production, and the resultant necessity for imports. These figures are given in the following table:

Iron Alloy	Stocks at 31 Dec. 1952	Stocks to be accumulated in 1953	Consumption in 1953	Net requirements in 1953	Available from home sources	Necessary imports
FeMn refined	400	300	1,014	914	1,150	-
FeCr .07% C	372	100	180	-	300	-
FeCr .06 .10% C	403	180	1,550	1,320	600	200
FeV 50%	61	164	227	330	-	330
FeW	360	120	670	490	1,320	-
FeTi, 25%	94	161	190	257	-	257
FeMo, 60%	-	190	339	529	-	529
FeSi	-	2,600	15,800	18,400	18,400	-
FeNi	-	40	75	115	-	115

3. Consumption of iron alloys by the individual foundries is given below. All figures are in tons.

a. Consumption of ferronickel

Foundry	FeNi requirements
Foundry industry for production of 8,490 tons iron castings	20.6
Fort Wola	3.1
Metal Institute	2.0
Central Administration for the Construction of Heavy Machinery	50.0

b. Consumption of ferrowolfram

Type of Production	Baildon		Batory		Mala Panew		Stalowa Wola	
	A	B	A	B	A	B	A	B
Cast constructional steel without nickel	-	-	-	-	8,930	11.3	-	-
Cast constructional steel with nickel	7,080	4.2	-	-	-	-	-	-
Cast steel for tools (with carbon)	9.730	35.0	3,500	4.7	11	0.4	3,050	12.2
High-grade cast steel for tools	360	11.4	951	27.1	-	-	80	2.4
High speed steel	1,910	212.5	800	127.9	-	-	640	112.0
Stainless steel	1,880	1.0	-	-	3,220	106.6	-	-
Specialist cast steel	210	3.6	-	-	-	-	-	-

Fort Wola will require 0.9 tons FeW
A = Quantity in tons
B = Consumption of FeW in tons

c. Consumption of ferrovanadium

Type of Production	Baildon		Batory		Mala Panew		Stalowa Wola	
	A	B	A	B	A	B	A	B
Cast constructional steel without nickel	18,780	5.6	14,310	4.2	8,930	24.1	15,400	4.6
Cast constructional steel with nickel	7,080	1.4	3,450	1.7	-	-	-	-
Cast steel for tools (with carbon)	9,730	41.8	9,880	31.4	-	-	3,050	14.3
High-grade cast steel for tools	360	1.2	951	2.1	-	-	80	0.5
High speed steel	1,910	0.5	800	23.4	-	-	640	14.2
Stainless steel	1,880	0.5	-	-	-	-	-	-

Metal Institute for Tests = 1.5 tons.

The foundry industry will require 9 tons of FeV for the production of steel containing vanadium.

A = Quantity in tons
B = Consumption of FeV in tons.

d. Consumption of refined ferromanganese

Type of production	Baildon A	Baildon B	Batory A	Batory B	Mala Panew A	Mala Panew B	Stalowa Wola A	Stalowa Wola B
Refined constructional steel	3,550	0.7	-	-	23,760	21.4	1,880	0.4
Cast constructional steel without nickel	18,780	5.6	14,310	11.4	14,520	138.5	15,400	4.6
Cast constructional steel with nickel	7,080	2.8	3,450	0.7	1,200	4.3	13,900	5.6
Cast steel for tools (with carbon)	9,730	1.9	9,880	24.0	-	-	3,050	2.4
High-grade cast steel for tools	360	.05	951	0.4	-	-	-	-
High speed steel	1,910	.08	-	-	-	-	-	-
Stainless steel	1,880	16.2	625	6.2	3,220	1.1	1,750	14.0
Special cast steel	948	4.3	-	-	-	-	-	-

A = Quantity in tons
B = Consumption of FeMn

Further consumption will be:

Foundry industry, for 2,550 tons Martin steel	12.7 tons FeMn
Mala Panew Foundry, for 4,000 tons Martin steel	0.4 tons FeMn
Baildon Foundry, for electrodes	710 tons FeMn
Central Administration for the Construction of Heavy Machinery	22 tons FeMn
Metal Institute	2 tons FeMn

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